BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE, Byatarayanapura Division.

me Of Work : Construction of drains and culverts in Thanisandra village and Saraipalya and surrounding areas in ward no. 06, New ward no. 07

Sl. No.	Description of work	Unit	Modified Estimate No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)								
		Cum							
	New Drain								
	Saraipalya								
	In Front of Druvdesh Honda Showroom RHS		1	98.40	1.10	1.00	108.24		
	In Front of Druvdesh Honda ShowroomCross Road 1		1	48.70	1.10	0.72	38.73		
	In Front of Druvdesh Honda ShowroomCross Road 2		1	28.90	0.90	0.60	15.61		
	In Front of Druvdesh Honda ShowroomCross Road 3, LHS		1	151.80	0.90	1.00	136.62		
	In Front of Druvdesh Honda ShowroomCross Road 3, RHS		1	43.50	1.10	1.00	47.85		
	Cross Road to 3rd Cross Road		1	45.00	1.10	1.00	49.50		
	Cross Road To VidyaSagar Road From End RHS		1	114.80	1.10	1.00	126.28		
	Cross Road To VidyaSagar Road From End LHS		1	64.40	0.90	1.00	57.96		
	Opp Masjid, From Masjid, LHS		1	152.00	0.90	0.96	131.22		
	St. Javeria Kids School Road		1	16.50	0.90	0.90	13.37		
	In front of Masjid		1	75.90	0.90	1.00	68.31		
	Bachanna Krishnappa Layout, LHS		1	95.30	1.10	1.06	111.22		
	Bachanna Krishnappa Layout, RHS		1	60.00	0.90	1.00	54.00		
	Ashwath Nagara								
	AshwathNagara L Drain		1	20.00	0.90	1.00	18.00		
	AshwathNagara LHS		1	14.80	1.10	1.00	16.28		
	Awa Store Raod from End		1	90.00	0.90	1.00	81.00		
	Bharathnagar								
	Iqra Public School Road		1	171.70	1.10	1.00	188.87		
	Near Baloon Factory End Road		1	73.00	1.10	1.00	80.30		
	End Road Continuation to Baloon Factory Till Apartment Compound		1	27.30	0.90	1.00	24.57		
	Ashwath Nagara								
	Bagari Nivas #91 Road LHS		1	41.80	0.90	1.00	37.62		
	Bagari Nivas #91 Road RHS		1	20.80	0.90	1.00	18.72		
	2nd A Cross, Motanna Layout		1	36.80	0.90	1.00	33.12		
	SaraiPalya Main Road RHS		1	155.00	1.10	1.00	170.50		
	SaraiPalya Main Road LHS		1	73.20	1.10	1.00	80.52		
	#45/47 Manzil House Road		1	63.00	0.90	1.00	56.70		
	10th Cross Vinayaka Nagar		1	31.00	0.90	1.00	27.90		
	tawakal Chicken Centre Road		1	66.90	0.90	1.00	60.21		
	For Culvert								
	Saraipalya Main Road								
	In Front of Druvdesh Honda Showroom RHS		1	6.50	1.50	1.00	9.75		
			1	6.00	1.50	1.00	9.00		
			1	4.60	1.50	1.00	6.90		

In Front of Druvdesh Honda ShowroomCross Road 3		1	4.00	1.50	1.00	6.00		
		1	5.60	1.50	1.00	8.40		
		1	4.40	1.50	1.00	6.60		
Ashwath Nagara		1	4.60	1.50	1.00	6.90		
Awa Provision Road		1	6.00	1.50	1.00	9.00		
		1	5.30	1.50	1.00	7.95		
		1	5.40	1.50	1.00	8.10		
SaraiPalya Main Road LHS End		1	4.90	1.50	1.00	7.35		
SaraiPalya Main Road LHS		1	4.70	1.50	1.00	7.05		
		1	4.00	1.50	1.00	6.00		
		1	4.50	1.50	1.00	6.75		
Olampic New Gents Parlour Opp		1	7.60	1.50	1.00	11.40		
		1	5.20	1.50	1.00	7.80		
RHS To Masjid Road		1	4.70	1.50	1.00	7.05		
For Pipe Line								
M S Pharma Opp Road		1	54.50	0.60	0.90	29.43		
Cross Road 2		1	43.20	0.60	0.90	23.33		
Cross Road 1		1	30.30	0.60	0.90	16.36		
2nd A Cross Road Motanna Layput		1	36.50	0.60	0.90	19.71		
Sameer Solon Road		1	130.20	0.60	0.90	70.31		
R.A. Store Opp Road		1	25.80	0.60	0.90	13.93		
N.R. Bike Point Road		1	105.00	0.60	0.90	56.70		
Cross Road 1		1	24.50	0.60	0.90	13.23		
Cross Road 2		1	32.50	0.60	0.90	17.55		
Cross Road 3		1	30.60	0.60	0.90	16.52		
Cross Road 4		1	29.30	0.60	0.90	15.82		
Cross Road 5		1	36.50	0.60	0.90	19.71		
					Total	2297.81	210.00	482540.84

2 Providing and laying in position plain cement concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3) (Issue Rate Considered 7 July 2022)

	Cum							
New Drain								
Saraipalya								
In Front of Druvdesh Honda Showroom RHS		1	98.40	1.10	0.15	16.24		
In Front of Druvdesh Honda ShowroomCross Road 1		1	48.70	1.10	0.15	8.04		
In Front of Druvdesh Honda ShowroomCross Road 2		1	28.90	0.90	0.15	3.90		
In Front of Druvdesh Honda ShowroomCross Road 3, LHS		1	151.80	0.90	0.15	20.49		
In Front of Druvdesh Honda ShowroomCross Road 3, RHS		1	43.50	1.10	0.15	7.18		
Cross Road to 3rd Cross Road		1	45.00	1.10	0.15	7.43		
Cross Road To VidyaSagar Road From End RHS		1	114.80	1.10	0.15	18.94		
Cross Road To VidyaSagar Road From End LHS		1	64.40	0.90	0.15	8.69		
Opp Masjid, From Masjid, LHS		1	152.00	0.90	0.15	20.52		
St. Javeria Kids School Road		1	16.50	0.90	0.15	2.23		
In front of Masjid		1	75.90	0.90	0.15	10.25		
Bachanna Krishnappa Layout, LHS		1	95.30	1.10	0.15	15.72		
Bachanna Krishnappa Layout, RHS		1	60.00	0.90	0.15	8.10		

Ashwath Nagara								
AshwathNagara L Drain								
AshwathNagara LHS		1	20.00	0.90	0.15	2.70		
Awa Store Raod from End		1	14.80	1.10	0.15	2.44		
Bharathnagar		1	90.00	0.90	0.15	12.15		
Iqra Public School Road								
Near Baloon Factory End Road		1	171.70	1.10	0.15	28.33		
		1	73.00	1.10	0.15	12.05		
End Road Continuation to Baloon Factory Till Apartment Compound		1	27.30	0.90	0.15	3.69		
Ashwath Nagara								
Bagari Nivas #91 Road LHS		1	41.80	0.90	0.15	5.64		
Bagari Nivas #91 Road RHS		1	20.80	0.90	0.15	2.81		
2nd A Cross, Motanna Layout		1	36.80	0.90	0.15	4.97		
SaraiPalya Main Road RHS		1	155.00	1.10	0.15	25.58		
SaraiPalya Main Road LHS		1	73.20	1.10	0.15	12.08		
#45/47 Manzil House Road		1	63.00	0.90	0.15	8.51		
10th Cross Vinayaka Nagar		1	31.00	0.90	0.15	4.19		
tawakal Chicken Centre Road		1	66.90	0.90	0.15	9.03		
For Culvert								
Saraipalya Main Road								
In Front of Druvdesh Honda Showroom RHS		1	6.50	1.40	0.15	1.37		
		1	6.00	1.40	0.15	1.26		
		1	4.60	1.40	0.15	0.97		
		1	4.00	1.40	0.15	0.84		
In Front of Druvdesh Honda ShowroomCross Road 3								
		1	5.60	1.40	0.15	1.18		
		1	4.40	1.40	0.15	0.92		
		1	4.60	1.40	0.15	0.97		
Ashwath Nagara		1	6.00	1.40	0.15	1.26		
Awa Provision Road								
		1	5.30	1.40	0.15	1.11		
		1	5.40	1.40	0.15	1.13		
SaraiPalya Main Road LHS End		1	4.90	1.40	0.15	1.03		
SaraiPalya Main Road LHS		1	4.70	1.40	0.15	0.99		
		1	4.00	1.40	0.15	0.84		
		1	4.50	1.40	0.15	0.95		
Olampic New Gents Parlour Opp		1	7.60	1.40	0.15	1.60		
		1	5.20	1.40	0.15	1.09		
RHS To Masjid Road		1	4.70	1.40	0.15	0.99		
For Kerb Pcc		1	89.00	0.20	0.10	1.78		
Awa Store Road		1	16.50	0.20	0.10	0.33		
St. Javeria School Road		1	63.00	0.20	0.10	1.26		
#45/47 Manzil House Road		1	73.20	0.20	0.10	1.46		
SaraiPalya Main Road LHS		1	36.80	0.20	0.10	0.74		
2nd A Cross, Motanna Layout								
					Total	**305.92**	**6320.00**	**1933411.24**

3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2) (Issue Rate Considered 7 July 2022)								
	Drain								
	Bottom Raft								
	Saraipalya								

In Front of Druvdesh Honda Showroom RHS		1	98.40	0.90	0.15	13.28		
In Front of Druvdesh Honda ShowroomCross Road 1		1	48.70	1.10	0.15	8.04		
In Front of Druvdesh Honda ShowroomCross Road 2		1	28.90	0.75	0.15	3.25		
In Front of Druvdesh Honda ShowroomCross Road 3, LHS		1	151.80	0.75	0.15	17.08		
In Front of Druvdesh Honda ShowroomCross Road 3, RHS		1	43.50	0.90	0.15	5.87		
Cross Road to 3rd Cross Road		1	45.00	0.90	0.15	6.08		
Cross Road To VidyaSagar Road From End RHS		1	114.80	0.90	0.15	15.50		
Cross Road To VidyaSagar Road From End LHS		1	64.40	0.75	0.15	7.25		
Opp Masjid, From Masjid, LHS		1	152.00	0.75	0.15	17.10		
St. Javeria Kids School Road		1	16.50	0.75	0.15	1.86		
In front of Masjid		1	75.90	0.75	0.15	8.54		
Bachanna Krishnappa Layout, LHS		1	95.30	0.90	0.15	12.87		
Bachanna Krishnappa Layout, RHS		1	60.00	0.75	0.15	6.75		
Ashwath Nagara								
AshwathNagara L Drain		1	20.00	0.75	0.15	2.25		
AshwathNagara LHS		1	14.80	1.10	0.15	2.44		
Awa Store Raod from End		1	90.00	0.75	0.15	10.13		
Bharathnagar								
Iqra Public School Road		1	171.70	0.90	0.15	23.18		
Near Baloon Factory End Road		1	73.00	0.90	0.15	9.86		
End Road Continuation to Baloon Factory Till Apartment Compound		1	27.30	0.75	0.15	3.07		
Ashwath Nagara								
Bagari Nivas #91 Road LHS		1	41.80	0.75	0.15	4.70		
Bagari Nivas #91 Road RHS		1	20.80	0.75	0.15	2.34		
2nd A Cross, Motanna Layout		1	36.80	0.75	0.15	4.14		
SarailPalya Main Road RHS		1	155.00	0.90	0.15	20.93		
SarailPalya Main Road LHS		1	73.20	0.90	0.15	9.88		
#45/47 Manzil House Road		1	63.00	0.75	0.15	7.09		
10th Cross Vinayaka Nagar		1	31.00	0.75	0.15	3.49		
tawakal Chicken Centre Road		1	66.90	0.75	0.15	7.53		
Side Walls								
New Drain								
Saraipalya								
In Front of Druvdesh Honda Showroom RHS		2	98.40	0.15	0.60	17.71		
In Front of Druvdesh Honda ShowroomCross Road 1		2	48.70	0.15	0.60	8.77		
In Front of Druvdesh Honda ShowroomCross Road 2		2	28.90	0.15	0.45	3.90		
In Front of Druvdesh Honda ShowroomCross Road 3, LHS		2	151.80	0.15	0.60	27.32		
In Front of Druvdesh Honda ShowroomCross Road 3, RHS		2	43.50	0.15	0.60	7.83		
Cross Road to 3rd Cross Road		2	45.00	0.15	0.60	8.10		
Cross Road To VidyaSagar Road From End RHS		2	114.80	0.15	0.60	20.66		
Cross Road To VidyaSagar Road From End LHS		2	64.40	0.15	0.46	8.89		
Opp Masjid, From Masjid, LHS		2	152.00	0.15	0.54	24.67		
St. Javeria Kids School Road		2	16.50	0.15	0.60	2.97		
In front of Masjid		2	75.90	0.15	0.60	13.66		
Bachanna Krishnappa Layout, LHS		2	95.30	0.15	0.75	21.38		
Bachanna Krishnappa Layout, RHS		2	60.00	0.15	0.60	10.80		
Ashwath Nagara								

AshwathNagara L Drain								
AshwathNagara LHS		2	20.00	0.15	0.60	3.60		
Awa Store Raod from End		2	14.80	0.15	0.60	2.66		
Bharathnagar		2	90.00	0.15	0.60	16.20		
Jra Public School Road								
Near Baloon Factory End Road		2	171.70	0.15	0.60	30.91		
		2	73.00	0.15	0.60	13.14		
End Road Continuation to Baloon Factory Till Apartment Compound		2	27.30	0.15	0.60	4.91		
Ashwath Nagara								
Bagari Nivas #91 Road LHS								
Bagari Nivas #91 Road RHS		2	41.80	0.15	0.60	7.52		
2nd A Cross, Motanna Layout		2	20.80	0.15	0.60	3.74		
SaraiPalya Main Road RHS		2	36.80	0.15	0.60	6.62		
SaraiPalya Main Road LHS		2	155.00	0.15	0.60	27.90		
#45/47 Manzil House Road		2	73.20	0.15	0.60	13.18		
10th Cross Vinayaka Nagar		2	63.00	0.15	0.60	11.34		
lawakal Chicken Centre Road		2	31.00	0.15	0.60	5.58		
		2	66.90	0.15	0.60	12.04		
				Sub Total		**570.48**		
New Culvert Raft								
For Culvert								
Saraipalya Main Road								
In Front of Druvdesh Honda Showroom RHS		1	6.50	1.20	0.20	1.56		
		1	6.00	1.20	0.20	1.44		
		1	4.60	1.20	0.20	1.10		
		1	4.00	1.20	0.20	0.96		
In Front of Druvdesh Honda ShowroomCross Road 3								
		1	5.60	1.20	0.20	1.34		
		1	4.40	1.20	0.20	1.06		
		1	4.60	1.20	0.20	1.10		
Ashwath Nagara		1	6.00	1.20	0.20	1.44		
Awa Provision Road								
		1	5.30	1.20	0.20	1.27		
		1	5.40	1.20	0.20	1.30		
SaraiPalya Main Road LHS End		1	4.90	1.20	0.20	1.18		
SaraiPalya Main Road LHS		1	4.70	1.20	0.20	1.13		
		1	4.00	1.20	0.20	0.96		
		1	4.50	1.20	0.20	1.08		
Olampic New Gents Parlour Opp		1	7.60	1.40	0.20	2.13		
		1	5.20	1.40	0.20	1.46		
RHS To Masjid Road		1	4.70	1.40	0.20	1.32		
Side Walls								
Saraipalya Main Road								
In Front of Druvdesh Honda Showroom RHS		2	6.50	0.225	0.55	1.61		
		2	6.00	0.225	0.55	1.49		
		2	4.60	0.225	0.55	1.14		
		2	4.00	0.225	0.55	0.99		
In Front of Druvdesh Honda ShowroomCross Road 3								
		2	5.60	0.225	0.55	1.39		
		2	4.40	0.225	0.55	1.09		
		2	4.60	0.225	0.55	1.14		
		2	6.00	0.225	0.55	1.49		
Ashwath Nagara								
Awa Provision Road		2	5.30	0.225	0.55	1.31		
		2	5.40	0.225	0.55	1.34		
SaraiPalya Main Road LHS End		2	4.90	0.225	0.55	1.21		
SaraiPalya Main Road LHS		2	4.70	0.225	0.55	1.16		
		2	4.00	0.225	0.55	0.99		

Olampic New Gents Parlour Opp		2	4.50	0.225	0.55	1.11		
		2	7.60	0.225	0.60	2.05		
HS To Masjid Road		2	5.20	0.225	0.55	1.29		
		2	4.70	0.225	0.55	1.16		
				Sub Total		43.77		
					Total	614.25	7200.00	4422612.60

Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 99 item no 13.1)

For Drain	Cum					570.48		
	kg	Steel assumed 60Kg/Cum of				33441.43		
	tonne					33.44		
For Culvert	Cum					43.77		
	kg	Steel assumed 90 Kg/Cum of				3895.62		
	tonne					3.90		
					Total	37.34	104410.00	3898387.39

Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick made of M25 with OPC cement @ 340kgs per Cum with 20 mm and Down size graded granite metal coarse agg @.70 mixed including providing and removing centering, shuttering, shuttering propping etc. for edges of slabs with TMT (Fe500) COM, labor, labor, all Lead and Lift, HOM, Curing, including Cost of reinf. Etc, Complete as directed by the Engineer In charge of Work (Data Rate)

New Drain Cover Slab	Sqm							
Saraipalya								
In Front of Druvdesh Honda Showroom RHS		1	98.40	0.90		88.56		
In Front of Druvdesh Honda ShowroomCross Road 1		1	48.70	0.90		43.83		
In Front of Druvdesh Honda ShowroomCross Road 2		1	28.90	0.75		21.68		
In Front of Druvdesh Honda ShowroomCross Road 3, LHS		1	151.80	0.75		113.85		
In Front of Druvdesh Honda ShowroomCross Road 3, RHS		1	43.50	0.90		39.15		
Cross Road to 3rd Cross Road		1	45.00	0.90		40.50		
Cross Road To VidyaSagar Road From End RHS		1	114.80	0.90		103.32		
Cross Road To VidyaSagar Road From End LHS		1	64.40	0.75		48.30		
Opp Masjid, From Masjid, LHS		1	152.00	0.75		114.00		
St. Javeria Kids School Road		1	16.50	0.75		12.38		
In front of Masjid		1	57.00	0.75		42.75		
Bachanna Krishnappa Layout, LHS		1	95.30	0.90		85.77		
Bachanna Krishnappa Layout, RHS		1	60.00	0.75		45.00		
						0.00		
Ashwath Nagara								
AshwathNagara L Drain		1	20.00	0.75		15.00		
AshwathNagara LHS		1	14.80	0.90		13.32		
Awa Store Raod from End		1	90.00	0.75		67.50		
						0.00		
Bharathnagar								
Iqra Public School Road		1	171.70	0.90		154.53		
Near Baloon Factory End Road		1	73.00	0.90		65.70		
End Road Continuation to Baloon Factory Till Apartment Compound		1	27.30	0.75		20.48		
						0.00		
Ashwath Nagara								
Bagari Nivas #91 Road LHS		1	41.80	0.75		31.35		
Bagari Nivas #91 Road RHS		1	20.80	0.75		15.60		
2nd A Cross, Motanna Layout		1	36.80	0.75		27.60		
SaraiPalya Main Road RHS		1	155.00	0.90		139.50		
SaraiPalya Main Road LHS		1	73.20	0.90		65.88		
#45/47 Manzil House Road		1	63.00	0.75		47.25		
10th Cross Vinayaka Nagar		1	31.00	0.75		23.25		
tawakal Chicken Centre Road		1	66.90	0.75		50.18		

5	Providing and Fixing pre cast covering Slab 230mm thick made out of CC 1:1.5:3 and jelly 20mm Down size with steel reinforcement including, form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge (Approved Data Rate)								
	Culvert Cover Slab								
	New Culvert	Sqm							
	For Culvert								
	Saraipalya Main Road								
	In Front of Druvdesh Honda Showroom RHS		1	6.50	1.20		7.80		
			1	6.00	1.20		7.20		
	In Front of Druvdesh Honda ShowroomCross Road 3		1	4.60	1.20		5.52		
			1	4.00	1.20		4.80		
			1	5.60	1.20		6.72		
	Ashwath Nagara		1	4.40	1.20		5.28		
	Awa Provision Road		1	4.60	1.20		5.52		
			1	6.00	1.20		7.20		
			1	5.30	1.20		6.36		
	SaraiPalya Main Road LHS End		1	5.40	1.20		6.48		
	SaraiPalya Main Road LHS		1	4.90	1.20		5.88		
			1	4.70	1.20		5.64		
			1	4.00	1.20		4.80		
	Olampic New Gents Parlour Opp		1	4.50	1.20		5.40		
			1	7.60	1.50		11.40		
	RHS To Masjid Road		1	5.20	1.20		6.24		
			1	4.70	1.20		5.64		
						Total	**107.88**	**5250.00**	**566370.00**
7	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete as directed by the Engineer in Charge of the work (excluding GST and Area Leading Charges) (Approved Data Rate)								
	Kerb Stones	Nos							
	Awa Store Road		1	89.00			89.00		
	St. Javeria School Road		1	16.50			16.50		
	#45/47 Manzil House Road		1	63.00			63.00		
	SaraiPalya Main Road LHS		1	73.20			73.20		
	2nd A Cross, Motanna Layout		1	36.80			36.80		
						M	**278.50**		
						In Nos	618.89		
						Total	**619.00**	**525.00**	**324975.00**
8	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concretesurfaces. MORTH Chapter 803 (PWD SR 2021-22 Vol III Pg no 56 Item No 8.10)								
	Kerb Stones	Nos							
	Awa Store Road		1	89.00		0.35	31.15		
	St. Javeria School Road		1	16.50		0.35	5.78		
	#45/47 Manzil House Road		1	63.00		0.35	22.05		
	SaraiPalya Main Road LHS		1	73.20		0.35	25.62		
	2nd A Cross, Motanna Layout		1	36.80		0.35	12.88		
						Total	**97.48**	**96.00**	**9357.60**
	Road Works								

9 Earth work in surface excavation by mechanical means for lowering & levelling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work. In all kinds of soils upto 300 mm depth. (PWD SR 21-22 Vol I Pg no 8 Item No 1.12)

CC Road Saraipalya	Cum							
In Front of Druvdesh Honda Showroom, Cross Road 1		1	48.70	4.60	0.30	67.20		
In Front of Druvdesh Honda Showroom, Cross Road 2		1	35.30	4.58	0.30	48.45		
In Front of Druvdesh Honda Showroom, Cross Road 3		1	56.45	4.30	0.30	72.82		
Cross Road To, Cross Road 3 Dead End Road		1	47.00	4.70	0.30	66.27		
RHS To Masjid Road		1	31.00	5.50	0.30	51.15		
St. Javeria School Road		1	16.50	3.85	0.30	19.06		
Saraipalya Main Road, 1st c/s Road		1	31.00	3.75	0.30	34.88		
Saraipalya Main Road, 2nd c/s Road		1	16.70	3.25	0.30	16.28		
Saraipalya Main Road, 3rd c/s Road		1	36.70	2.70	0.30	29.73		
Next to Masjid Road		1	24.40	3.55	0.30	25.99		
In Front of Devi Temple Road		1	23.00	3.25	0.30	22.43		
In Front of H No. 6/A, 59 Road		1	23.10	3.30	0.30	22.87		
Bachanna Krishnappa Layout		1	21.00	3.15	0.30	19.85		
Ashwath Nagara		1	161.30	5.40	0.30	261.31		
Awa Store Road		1	88.80	5.95	0.30	158.51		
H No, 91 Motanna Layout		1	36.60	4.20	0.30	46.12		
End Road, Baloon Factory Road		1	83.20	4.90	0.30	122.30		
End Road, Baloon Factory Road Continuation till Apartment Compound		1	27.30	4.80	0.30	39.31		
Cross Road to End Road, Baloon Factory Road RHS		1	21.10	4.10	0.30	25.95		
2nd A Cross Road Motanna Layout		1	36.50	5.25	0.30	57.49		
					Total	1207.94		
					Total Quantity Upto 125%	866.56	270.00	233971.88
					Total Quantity Above 125%	341.38	300.27	102505.52

10 Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density MORTH Specification No. 406 (PWD SR 21-22 Vol III Pg no 24 Item No 4.27 (A))

CC Road Saraipalya	Cum							
In Front of Druvdesh Honda Showroom, Cross Road 1		1	48.70	4.60	0.15	33.60		
In Front of Druvdesh Honda Showroom, Cross Road 2		1	35.30	4.58	0.15	24.22		
In Front of Druvdesh Honda Showroom, Cross Road 3		1	56.45	4.30	0.15	36.41		
Cross Road To, Cross Road 3 Dead End Road		1	47.00	4.70	0.15	33.14		
RHS To Masjid Road		1	31.00	5.50	0.15	25.58		
St. Javeria School Road		1	16.50	3.85	0.15	9.53		
Saraipalya Main Road, 1st c/s Road		1	31.00	3.75	0.15	17.44		
Saraipalya Main Road, 2nd c/s Road		1	16.70	3.25	0.15	8.14		
Saraipalya Main Road, 3rd c/s Road		1	36.70	2.70	0.15	14.86		

Next to Masjid Road		1	24.40	3.55	0.15	12.99		
In Front of Devi Temple Road		1	23.00	3.25	0.15	11.21		
In Front of H No. 6/A, 59 Road		1	23.10	3.30	0.15	11.43		
Bachanna Krishnappa Layout		1	21.00	3.15	0.15	9.92		
shwath Nagara		1	161.30	5.40	0.15	130.65		
Awa Store Road		1	88.80	5.95	0.15	79.25		
H No, 91 Motanna Layout		1	36.60	4.20	0.15	23.06		
End Road, Baloon Factory Road		1	83.20	4.90	0.15	61.15		
End Road, Baloon Factory Road Continuation till Apartment Compound		1	27.30	4.80	0.15	19.66		
Cross Road to End Road, Baloon Factory Road RHS		1	21.10	4.10	0.15	12.98		
2nd A Cross Road Motanna Layout		1	36.50	5.25	0.15	28.74		
					Total	603.97		
					Total Quantity Upto 125%	519.94	2730.00	1419429.39
					Total Quantity Above 125%	84.03	2764.81	232331.49

Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machinery, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 (M 5.0) Using 40 mm nominal size graded crushed coarse aggregates(Specification No. 2.1.1 PWD SR 2021-22 Vol -I P.No.50) (Issue Rate Considered 7 July 2022)

CC Road Saraipalya	Cum							
In Front of Druvdesh Honda Showroom, Cross Road 1		1	48.70	4.60	0.15	33.60		
In Front of Druvdesh Honda Showroom, Cross Road 2		1	35.30	4.58	0.15	24.22		
In Front of Druvdesh Honda Showroom, Cross Road 3		1	56.45	4.30	0.15	36.41		
Cross Road To, Cross Road 3 Dead End Road		1	47.00	4.70	0.15	33.14		
RHS To Masjid Road		1	31.00	5.50	0.15	25.58		
St. Javeria School Road		1	16.50	3.85	0.15	9.53		
Saraipalya Main Road, 1st c/s Road		1	31.00	3.75	0.15	17.44		
Saraipalya Main Road, 2nd c/s Road		1	16.70	3.25	0.15	8.14		
Saraipalya Main Road, 3rd c/s Road		1	36.70	2.70	0.15	14.86		
Next to Masjid Road		1	24.40	3.55	0.15	12.99		
In Front of Devi Temple Road		1	23.00	3.25	0.15	11.21		
In Front of H No. 6/A, 59 Road		1	23.10	3.30	0.15	11.43		
Bachanna Krishnappa Layout		1	21.00	3.15	0.15	9.92		
Ashwath Nagara		1	161.30	5.40	0.15	130.65		
Awa Store Road		1	88.80	5.95	0.15	79.25		
H No, 91 Motanna Layout		1	36.60	4.20	0.15	23.06		
End Road, Baloon Factory Road		1	83.20	4.90	0.15	61.15		
End Road, Baloon Factory Road Continuation till Apartment Compound		1	27.30	4.80	0.15	19.66		
Cross Road to End Road, Baloon Factory Road RHS		1	21.10	4.10	0.15	12.98		
2nd A Cross Road Motanna Layout		1	36.50	5.25	0.15	28.74		
					Total	603.97		
					Total Quantity Upto 125%	519.94	5550.00	2885633.13
					Total Quantity Above 125%	84.03	5611.61	471534.15

2 Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work. (PWD SR 2021-22 Vol -III Pg 138 item no 20.29) (Issue Rate Considered 7 July 2022)

	Cum							
CC Road Saraipalya	**Cum**							
In Front of Druvdesh Honda Showroom, Cross Road 1		1	48.70	4.60	0.15	33.60		
In Front of Druvdesh Honda Showroom, Cross Road 2		1	35.30	4.58	0.15	24.22		
In Front of Druvdesh Honda Showroom, Cross Road 3		1	56.45	4.30	0.15	36.41		
Cross Road To, Cross Road 3 Dead End Road		1	47.00	4.70	0.15	33.14		
RHS To Masjid Road		1	31.00	5.50	0.15	25.58		
St. Javeria School Road		1	16.50	3.85	0.15	9.53		
Saraipalya Main Road, 1st c/s Road		1	31.00	3.75	0.15	17.44		
Saraipalya Main Road, 2nd c/s Road		1	16.70	3.25	0.15	8.14		
Saraipalya Main Road, 3rd c/s Road		1	36.70	2.70	0.15	14.86		
Next to Masjid Road		1	24.40	3.55	0.15	12.99		
In Front of Devi Temple Road		1	23.00	3.25	0.15	11.21		
In Front of H No. 6/A, 59 Road		1	23.10	3.30	0.15	11.43		
Bachanna Krishnappa Layout		1	21.00	3.15	0.15	9.92		
Ashwath Nagara		1	161.30	5.40	0.15	130.65		
Awa Store Road		1	88.80	5.95	0.15	79.25		
H No, 91 Motanna Layout		1	36.60	4.20	0.15	23.06		
End Road, Baloon Factory Road		1	83.20	4.90	0.15	61.15		
End Road, Baloon Factory Road Continuation till Apartment Compound		1	27.30	4.80	0.15	19.66		
Cross Road to End Road, Baloon Factory Road RHS		1	21.10	4.10	0.15	12.98		
2nd A Cross Road Motanna Layout		1	36.50	5.25	0.15	28.74		
					Total	**603.97**		
					Total Quantity Upto 125%	**519.94**	**7450.00**	**3873534.38**
					Total Quantity Above 125%	**84.03**	**7520.64**	**631973.79**

3 Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 8 km = 96 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)

Qty frm Item No-1	**t.Km**		2297.81	1.28		2941.20		
Qty frm Item No-7			1207.94	1.28		1546.16		
					Total	**4487.36**	**105.00**	**471173.10**

4 KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. Specification No. (PWD SR 2021-22 Vol -2 CORRIGENDA,item No. 6.4)

Not Operated								
						0.00	**0.00**	**0.00**

	Providing and constructing load bearing wall with **Solid Concrete blocks of size 400x200x200mm** having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (PWD SR 2021-22 Vol -II Pg 17 item no 6.32)								
	Not Operated								
							0.00	0.00	0.00
	Providing Flush / Ruled/ Struck or weathered pointing Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely lining, including cost of materials, labour, curing as per specifications and as per directions of Engineerin- charge .**(PWD SR 2021-22 Vol -II Pg 44 item no 8.17.1)**								
	Not Operated								
							0.00	0.00	0.00
	Providing and laying in position **Reinforced cement concrete** for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates with 20% partial replacement with Recycled concrete aggregate (RCA). **(PWD SR 2021-22 Vol -I Pg 15 item no 2.2.2.1)**								
	Not Operated								
							0.00	0.00	0.00
8	Providing Thermo-Mechanically **Treated bars of grade Fe-500D or** more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately). **(PWD SR 2021-22 Vol -II Pg 84 item no 11.32) (Issue Rate Considered 7 July 2022)**								
	Not Operated								
							0.00	0.00	0.00
19	**Providing Lubi make 15 HP 3 Phase dewatering submersible pump** with outlet 6" LHP 61535 @ 8 mtrs 240 m3/hr=4000 lpm								
	Not Operated						0	0.00	0.00
	15 HP	No	0				0	0.00	0.00
20	**Providing 160 mm PVC pipe** 6 kg/sqcm	mtr	0				0	0.00	0.00
21	Providing and fixing 160 mm PVC elbow	No	0				0	0.00	0.00
22	**Providing** and fixing 160 mm PVC collar	No	0				0	0.00	0.00
23	**Provding** and fixing 160 mm PVC ball wall	No	0				0	0.00	0.00
24	**Providing** and fixing MS gate of size 0.6x0.6 mtr	No	0				0	0.00	0.00
25	**Providing** MS cover with frame of size 0.9x0.9 mtr	No	0				0	0.00	0.00
26	**Supplying of 1.1KV LT UG cable** XPLE or heat resistant PVC Insulated PVC eatruded inner sheath armoured UG LT cable as per IS -1554(Part-1) or IS-7098 Part-1,Armouring strip thickness in average +5% and resistivity 14ohms/kms(max) as per IS -3975 4 core 16sqmm **(Ele SR 2019-20 P-No 40 I/No-6.4.4)**								
	Not Operated						0.00	0.00	0.00
27	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/ stone pipe / on wall/ on pole as required 6 sqmm to 16 sqmm. (Ele SR OF 2019-20 P-No 41 I/No-6.5.1)								
	Not Operated								

	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to13:8130-984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100 V as per IS-694:2010. 3C x 6 mm2 **(PWD Electrical SR 2022-23 Vol-VI Page No.4, Item No.2.6.4)**						0.00	0.00	0.00
	Not Operated								
	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor Above 12.5 HP upto 25 HP **(PWD Electrical SR 2022-23 Vol-VI Page No.10, Item No.5.2.2)**						0.00	0.00	0.00
	Not Operated								
	Fabricating supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clA with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete. **(PWD Electrical SR 2022-23 Vol-VI Page No.15, Item No.5.42.2)**						0.00	0.00	0.00
	Not Operated								
	Labour charges for erection of outdoor type panel board and meter boardunits with all necessary materials and labour, tools and equipments including providing cement concrete foundation bed etc., complete as per specification, with testing of as per instructions of engineer incharge of work. **(PWD SR 2021-22 Vol-V Page No.163, Item No.40)**						0.00	0.00	0.00
	Not Operated								
2	Bescom deposit Charges	LS	0				0	0.00	0.00
	Supplying UNPLASTICISED PVC pipes conforming to IS 16098:2013 with latest amendments ended with integral sockets with ISI mark and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of UPVC pipes (with cost of elastomeric sealing rings) and specials (excluding cost of specials) with jointing of approved type, with all labour, lead & lifts, including encasing the pipes alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (contractor will make his own arrangements for procuring water for testing) etc. for (SL No 2.1, SOR Code - M020A Page No 134 of Water supply & UGD Works SR 21-22).								
		M							
	For Pipe Line		1	54.50			54.5		
	M S Pharma Opp Road		1	43.20			43.2		
	Cross Road 2		1	30.30			30.3		
	Cross Road 1		1	36.50			36.5		
	2nd A Cross Road Motanna Layput		1	130.20			130.2		
	Sameer Solon Road		1	25.80			25.8		
	R.A. Store Opp Road		1	105.00			105		
	N.R. Bike Point Road		1	24.50			24.5		
	Cross Road 1		1	32.50			32.5		
	Cross Road 2		1	30.60			30.6		
	Cross Road 3		1	29.30			29.3		
	Cross Road 4		1	36.50			36.5		
	Cross Road 5					**Total**	**578.90**	**214.18**	**123988.57**

2	Refilling available earth around trenches/pipelines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50 m , and lift upto 1.5 m. Including cost of all labour complete as per specifications (KPWD SR 2021-22, Volume-I, Item No.1.10, Page No.7							
	For Pipe Line	Cum						
	M S Pharma Opp Road		1	54.50	0.6	0.8	26.16	
	Cross Road 2		1	43.20	0.6	0.8	20.74	
	Cross Road 1		1	30.30	0.6	0.8	14.54	
	2nd A Cross Road Motanna Layput		1	36.50	0.6	0.8	17.52	
	Sameer Solon Road		1	130.20	0.6	0.8	62.50	
	R.A. Store Opp Road		1	25.80	0.6	0.8	12.38	
	N.R. Bike Point Road		1	105.00	0.6	0.8	50.40	
	Cross Road 1		1	24.50	0.6	0.8	11.76	
	Cross Road 2		1	32.50	0.6	0.8	15.60	
	Cross Road 3		1	30.60	0.6	0.8	14.69	
	Cross Road 4		1	29.30	0.6	0.8	14.06	
	Cross Road 5		1	36.50	0.6	0.8	17.52	
						Total	277.87	140.90
							Sub-Total	39,151.21
							GST Charges (18% of cost)	25425773.16
							Grand Total Amount Rs.	4576639.17
								30002413.00

Assistant Engineer
Ward No.
ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

Executive Engineer
Byatarayanapura - Division
B.B.M.P

Assistant Executive Engineer
Byatarayanapura Sub-Division
B.B.M.P.
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-26

Technical Sanction
Accorded For Rs 3000 2413.00
Head of A/C 1D3873
CER NO : 07 Dt: 24/04/23

CE